

## Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

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Section 1 - Product And Company Information

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Product Diethylene Glycol Monobutyl Ether Acetate (DBAC)  
Product No D027  
Company Dynamic N.A. Inc  
Address 23 Captains Walk, Milford, CT 06460, U.S.A.  
Phone 1 914 965 2077  
Fax 1 914 375 2093

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Section 2 - Composition/Information On Ingredients

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Synonyms 2-(2-Butoxyethoxy) ethyl acetate, Butyldiglycol acetate  
CAS # 124-17-4  
Formula C<sub>10</sub>H<sub>20</sub>O<sub>4</sub>

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Section 3 - Hazards Identification

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## EMERGENCY OVERVIEW

OSHA Hazards: No known OSHA hazards

## HMIS CLASSIFICATION

Health Hazard: 0

Flammability: 1

Physical hazards: 0

## NFPA RATING

Health Hazard: 0

Fire: 1

Reactivity Hazard: 0

## POTENTIAL HEALTH EFFECTS

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

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Section 4 - First Aid Measures

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## IF INHALED

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

## IN CASE OF SKIN CONTACT

Wash off with soap and plenty of water. Consult a physician.

## IN CASE OF EYE CONTACT

Flush eyes with water as a precaution.

## IF SWALLOWED

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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Section 5 - Fire Fighting Measures

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## FLAMMABLE PROPERTIES

Flash point 102 °C (216 °F) - closed cup

Ignition temperature 201 °C (394 °F)

## SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

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Section 6 - Accidental Release Measures

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## PERSONAL PRECAUTIONS

Avoid breathing vapors, mist or gas.

## ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

## METHODS FOR CLEANING UP

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Keep in suitable, closed containers for disposal.

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**Section 7 - Handling and Storage**

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**HANDLING**

Normal measures for preventive fire protection.

**STORAGE**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Store under inert gas. Light sensitive. Heat sensitive.

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**Section 8 - Exposure Controls / Personal Protection**

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Contains no substances with occupational exposure limit values.

**PERSONAL PROTECTIVE EQUIPMENT****RESPIRATORY PROTECTION**

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**HAND PROTECTION**

For prolonged or repeated contact use protective gloves.

**EYE PROTECTION**

Face shield and safety glasses

**SKIN AND BODY PROTECTION**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**HYGIENE MEASURES**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**Section 9 - Physical And Chemical Properties**

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Appearance	Light yellow clear liquid
Molecular Weight:	204.26 g/mol
pH	n/a
Melting point	n/a
Boiling point	245 °C (473 °F) - lit.
Flash point	102 °C (216 °F) - closed cup
Ignition temperature	201 °C (394 °F)
Lower explosion limit	0.76 %(V)
Upper explosion limit	10.7 %(V)
Density	0.977 g/mL at 20 °C (68 °F)
Water solubility	n/a

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**Section 10 - Stability and Reactivity**

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**STORAGE STABILITY**

Stable under recommended storage conditions.

**CONDITIONS TO AVOID**

Heat. Light.

**MATERIALS TO AVOID**

Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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**Section 11 - Toxicological Information**

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**ACUTE TOXICITY**

LD50 Oral - rat - 6,500 mg/kg

LC50 Inhalation - rat - 4 h - 72,500 mg/m<sup>3</sup>

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Lungs, Thorax, or Respiration:Dyspnea. Lungs, Thorax, or Respiration:Other changes.

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LD50 Dermal - rabbit - 14,500 mg/kg

## IRRITATION AND CORROSION

Skin - rabbit - Mild skin irritation

Eyes - rabbit - Mild eye irritation

## SENSITISATION

n/a

## CHRONIC EXPOSURE

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## POTENTIAL HEALTH EFFECTS

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Target Organs: Liver, Kidney, Testes.,

## ADDITIONAL INFORMATION

RTECS: KJ9275000

## Section 12 - Ecological Information

## ELIMINATION INFORMATION (persistence and degradability)

Biodegradability

## ECOTOXICITY EFFECTS

Toxicity to fish:

LC50 - Pimephales promelas (fathead minnow) - 77 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water flea) - 665 mg/l - 48 h

## FURTHER INFORMATION ON ECOLOGY

n/a

## Section 13 - Disposal Considerations

## PRODUCT

Observe all federal, state, and local environmental regulations.

## CONTAMINATED PACKAGING

Dispose of as unused product.

## Section 14 - Transport Information

## DOT (US)

Not dangerous goods

## IMDG

Not dangerous goods

## IATA

Not dangerous goods

## Section 15 - Regulatory Information

## OSHA HAZARDS

No known OSHA hazards

## DSL STATUS

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All components of this product are on the Canadian DSL list.

**SARA 302 COMPONENTS**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 COMPONENTS**

2-(2-Butoxyethoxy)ethyl acetate

CAS-No.:124-17-4

Revision Date:1995-01-01

**SARA 311/312 HAZARDS**

No SARA Hazards

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**Section 16 - Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.